

ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD

Date: 13.04.19 Job No.: ENG4206APR ADR Yes/No: Y ADR Date: 13.04.17 ECN #: 13- 554
 Product No.: D206-817 Created By: CP Approved By: MWO
 Product Name: Screw-in Windshield Kit Checked By: HJ

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	Y	NF	
Production Manager / Coord.	Y	LL/MF	
Purchasing Coord.	N	CL	
Production Engineering Coord.	Y	DD/JLM	
Production Engineering Coord.	N	DL	
Customer Order Processing	N	RM/CA	

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
DQA / QA Coord.	Y	PS	
QC Coordinator	Y	ED	
Customer Support	Y	SW/LM	
Customer Technical Support	Y	MB/DS	
Marketing	Y	HM	

Reason for Change:

Documents Affected:

Release:
 IIN-D206-817 Rev. D D4541 Rev. D
 ICA-D206-817 Rev. 2 D4542 Rev. D
 DSI 9643 Rev. B D4543 Rev. B

PAPERWORK UPDATE ☐

PARTS MUST COMPLY ☒

PREVIOUS PARTS SATISFACTORY ☐

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	Y	MB	SEND DSI KIT to customers?	
2	Notify Eurocopter France	N			
3					

#	Engineering Actions	Reqd	Resp	Notes	Complete
4	Required Documents/Drawings Under Review	Y	CP		
5	Update Master Document List (MDL)	Y	CP		
6	Update Product Compatability Matrix	N			
7	Create Eurocopter Form (FEE)	N			
8	Notify TC / FAA of Change	N			
9					

#	Document Control Actions	Reqd	Resp	Notes	Complete
10	Move Electronic Files/Design Journal	Y	KJ		13.04.22
11	Update Product Specification Files	Y	KJ	DSI IS REF ONLY	13.04.22
12	Update Approved/Preliminary Dwg PDF Files	Y	KJ		13.04.22
13	Update Document Record (DR)	N			
14	Update Product Development Summary	N			
15	Update QSI 021 and/or STC Approval List	N			
16	Create/Update Parts / STC Database	Y	KJ		13.04.22
17	Update / Verify ARC Database	Y	KJ		13.04.22
18	Create / Update Change Record Form / Item Card Database	Y	KJ	D206-817-011 @ CHG 003 DSI 9643-011 @ CHG 001	13.04.22
19	Create / Update PPP's	Y	KJ		
20	Red Decals required?	N			
21	Update Document Control Database / Laminated Dwgs	N			
22	Update Grey Project / Electronic Binder PDF Files	Y	KJ		13.04.22
23	Update D-Part/M-Drawing/DSI/DEO Master Binders	Y	KJ		13.04.22
24	Manufacturing Licensing Agreement Update	N			

Description / Action:

Kit has been updated to reflect changes requested by Heliworks and Vector Aviation, please see attached.

Done 13.05.03

ECN Verified & Complete: _____ Date: _____

D206-817-011 KIT is now at CHG 003

- All kits in stock need to be updated to CHG 002 per parts list in IIN-D206-817 Rev. D
- Remove D4545-043/-044/-047/-048 from kit and scrap
- Remove D4543-3/-4 and scrap. Replace with parts made to D4543 Rev. B
- Add D4543-5/-6 to kit
- Add (88) MS20426AD3-4 rivets, (44) MS21059L3K nutplates, (10) MS21061L08 nutplates
- Add D4541-3/-4/-7/-8 to kit
- Add qty(2) D4542-3 and qty(2) D4542-7
- Update IIN & ICA paperwork, update labels with new CHG #

DSI 9643 Rev. B should not be part of normal blue files. Should only be sent to customers for DSI 9643-011 kits ONLY.

DSI 9643-011 is now at CHG 002

- This kit is for changing any CHG 001 kits that have been shipped to customers into CHG 002.
- Note that CHG 001 / Rev. A was only released as a prototype for Heliworks/Vector trial fit
- There should not be any kits in stock, but if there is they need to be reworked to CHG 002, per Rev. B of the DSI

D4545-043/-044/-047/-048 is now obsolete. Scrap all parts in stock.

D4541 Rev. D

- All flat patterns are unchanged from Rev. C.
- D4541-4/-8 are new parts. They are bent and alodined. NO DIMPLING.
- Similarly, D4541-3/-7 are now bent and alodined without any dimpling.
- All D4541-3/-7 parts in stock or in progress should be scrapped if they have been dimpled. Otherwise they should be able to be reworked into the new D4541-3/-4/-7/-8 parts
- D4541-1/-2/-5/-6 parts are unchanged, parts in stock or in progress are OK

D4542 Rev. D

- New DXF for -3/-7
- Scrap all D4542-3/-7 in stock or in progress
- Note that new parts have no holes and are now alodined
- D4542-1/-2/-5 parts are unchanged, parts in stock or in progress are OK

D4543 Rev. B

- New DXF for -3/-4 (-3F)
- D4543-5/-6 are new parts
- Scrap all D4543-3/-4 parts in stock or in progress
- D4543-1/-2 parts are unchanged, parts in stock or in progress are OK

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D206-817 REV. D
& INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D206-817 REV. 2

REF. TCCA STC SH12-3
REF. FAA STC SR03091NY
REF. EASA STC 10039042

1.0 PURPOSE

FOR D206-817-011 KITS AT CHG 001, THE DSI 9643-011 RETAINER KIT IS AVAILABLE TO FACILITATE INSTALLATION OF THE RETAINERS. THE KIT INCLUDES PARTS TO REPLACE THE RIGID D4545-043/-044/-047/-048 RETAINER ASSEMBLIES WITH SEPARATE BRACKETS AND RETAINERS THAT ARE ASSEMBLED BY THE INSTALLER AND ALLOW FOR EASIER ADJUSTMENT. THE KIT ALSO INCLUDES NEW D4543-3/-4/-5/-6 OUTER RETAINERS THAT MORE ACCURATELY FIT THE PROFILE OF MOST AIRCRAFT, AS WELL AS SOME ADDITIONAL MS21061L08 SINGLE WING NUTPLATES TO ASSIST WITH THE INSTALLATION OF THE D4544-1 CENTER RETAINER. THESE CHANGES HAVE BEEN INCORPORATED INTO D206-817-011 KITS AT CHG 002.

2.0 PARTS LIST


QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9643-011	RETAINER KIT
1	D4541-3	BRACKET
1	D4541-4	BRACKET
1	D4541-7	BRACKET
1	D4541-8	BRACKET
2	D4542-3	RETAINER, INNER
2	D4542-7	RETAINER, INNER
1	D4543-3	RETAINER, OUTER
1	D4543-4	RETAINER, OUTER
1	D4543-5	RETAINER, OUTER
1	D4543-6	RETAINER, OUTER
88	MS20426AD3-4	RIVET
44	MS21059L3K	NUTPLATE
10	MS21061L08	NUTPLATE

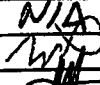

WHEN INSTALLING A D206-817-011 KIT AT CHG 001 ALONG WITH THE DSI 9643-011 KIT, REPLACE THE FOLLOWING PARTS IN THE D206-817-011 CHG 001 KIT AS FOLLOWS:

REPLACE D206-817-011 CHG 001 PART NUMBER	WITH DSI 9643-011 PART NUMBER
(1x) D4545-043	(1x) D4541-3 (1x) D4542-3
(1x) D4545-044	(1x) D4541-4 (1x) D4542-3
(1x) D4545-047	(1x) D4541-7 (1x) D4542-7
(1x) D4545-048	(1x) D4541-8 (1x) D4542-7
(1x) D4543-3	(1x) D4543-3 (NEW SHAPE) OR (1x) D4543-5
(1x) D4543-4	(1x) D4543-4 (NEW SHAPE) OR (1x) D4543-6

3.0 INSTALLATION

INSTALL PER IIN-D206-817 REV. D

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED 	
BY:	D. SHEPHERD (DE # 02)
DATE:	13.04.15
CERT. NO.:	SH12-3
ISSUE NO.:	1

B	ADD D4543-5/-6, REF TO IIN REV. D	CP	13.04.15
A	NEW ISSUE	CP	13.02.06
REV.	DESCRIPTION	BY	DATE
DESIGN	92	DART AEROSPACE LTD	
DRAWN	92	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ASS	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9643	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		RETAINER KIT	NTS
DATE	13.04.15	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

~~D4541-3 B 96759 * X18~~

~~D4541-4 B 96760 * X18~~

not dumped

upled?

rep

rep

N. no chg.

no dump

upled?

D4541-3 B 91421 x30 @ PDI

D4542-3 B 91436 x30 @ PDI

D4542-7 B 91467 x30 @ PDI

D4541-6 B 97803 x20 @ PDI

D4541-4 B 97804 x20 @ PDI

~~D4541-8 B 96962 x7~~

D4541-7 B 91436 x30 @ PDI

~~D4542-7 B 96964 x36~~

~~D4542-3 B 96963 x36~~

D4541-6 B 91430 x15 @ Rev C

D4541-5 B 91425 x15 @ Rev C

D4545-047 B 91517 x15 @ Rev C

D4542-7 B 91464 x28

D4545-046 B 91521 x15

D4545-046 B 91522 x15

D4545-044 B 91512 x14

D4545-043 B 91587 x15

D4545-043 B 91588 x15

D4545-044 B 91511 x15

D4545-047 B 91516

~~D4543-3~~ B 91488 x15

D4543-4 B 91487 x15

D4543-3 B 91481 x15

~~D4545-043 B 91505 x5~~

~~D4543-4 B 99234 x1 @ PB2~~

D4543-5 B 98115 x1

~~D4543-3 B 99233 x1 @ PB2~~

~~D4543-3 B 91460 x3~~

D4543-1 B 91466 x3

dumped? all not dumped
scrub

up

OK not dumped

up OK not dumped

(not Allowed or But)

(not Allowed or But)

(not Allowed or But)

(not Allowed)

(not Allowed or But)

(not Allowed or But)

(not Allowed or But)

(not Allowed or But)

(not Allowed or But)

(not Allowed or But)

(not Allowed)

(not Allowed)

(not Allowed)

(not Allowed)

up

~~D4541-3 B 96959 * x18~~

~~D4541-4 B 96960 * x18~~

not dumped

dumped? D4541-3 B 91421 x30 @ PDI } dumped? OK not dumped
scrap D4542-3 B 91456 x30 @ PDI }
scrap D4542-7 B 91467 x30 @ PDI }
OK no chg. D4541-6 B 97803 x20 @ PDI } w/p
OK-no dumping D4541-4 B 97804 x20 @ PDI } OK not dumped
~~D4541-8 B 96962 x17~~

dumped? D4541-7 B 91436 x30 @ PDI } w/p OK not dumped

~~D4542-7 B 96964 x36~~

~~scrap D4542-3 B 96963 x36~~

OK D4541-6 B 91430

OK D4541-5 B 91425

scrap D4545-047 B 91517

scrap D4542-7 B 91464

scrap D4545-046 B 91521

scrap D4545-046 B 91522

scrap D4545-044 B 91512

scrap D4545-043 B 91507

scrap D4545-043 B 91508

scrap D4545-044 B 91509

scrap D4545-047 B 91510

~~scrap D4543-3 B 91488 x15 (not A100)~~

scrap D4543-4 B 91487 x15 (not A100)

scrap D4543-3 B 91481 x15 (not A100)

~~D4545-043 B 91505 x15~~

~~D4543-4 B 99234 x1 @ P132 } w/p~~

check to drag D4543-5 B 98115 x1

~~D4543-3 B 99233 x1 @ P132 } w/p~~

~~D4543-3 B 91460 x3~~

scrap D4543-4 B 91466 x3

D4541-6 - 12
D4543-3 - 20
D4543-4 - 20

D4545-150.25

D4541-5 x 12
D4543-1 x 12
D4543-2 x 12

or But-1
or But-2
or Add-1
or Add-2
or Add-3
or Add-4
or Add-5
or Add-6
or Add-7
or Add-8
or Add-9
or Add-10

w/p